NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/DPD/2021-22/MS2-W1

Date: 26-09-2022

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. Gradation Test: **TEST RESULTS**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.25	95-100
26.50	---	-
22.40	73.05	60-80
11.20	51.45	40-60
4.75	33.80	25-40
2.36	24.15	15-30
0.600	19.60	8-22
0.075	3.55	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dhobi Ghat Rd Ch:0.00 to 30.00m

AE

For: Newzen Consultants Bangalore

Proprietor

AEE

Asst. Executive Engineer
Project Division, Dasrahalli
BBMP, Bangalore

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NEW TECHNOLOGIES TO INNOVATE

Date: 26-09-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.86%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.09%	Not more than 35.0 %
3.	Water absorption, %	0.42 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Dhobi Ghat Rd Ch:0.00 to 30.00m

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/JFT/2022-23/1/W2 Date: 28-09-2022

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobbighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.15**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**53.10**	40-60
4.75	**32.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.65**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dhobi Ghat Rd Ch:60.00 to 90.00m

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NEW TECHNOLOGIES TO INNOVATE

QC/DPD/2021-22/MS2–C1 Date: 30-09-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.04mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.75 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Cross Rd 01 From Main Road Ch:0.00 to 30.00m

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NEW TECHNOLOGIES TO INNOVATE

NCBC/DPD/2021-22/MS2–C2 Date: 01-10-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.14%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.08mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.55 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Cross Rd 01 From Main Road Ch:30.00 to 38.80m

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/TPD/2021-22/MS2--C3 Date: 03-10-2022

T. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobighat sy No:33 in Mallasandra Ward No:13.}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.35 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dhobi Ghat Rd Ch:0.00 to 30.00m.

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NEW TECHNOLOGIES TO INNOVATE

NCB/DPD/2021-22/MS2--CB1

Date: 13-10-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

(Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobbighat sy No 33 m Mallasandra Ward No:13.)

Ref: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-10-22	13-10-22	07	22500	425	18.89	19.19
	002	"	"	"	"	440	19.56	
	003	"	"	"	"	430	19.11	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Dhobi Ghat Rd Ch:0.00 to 30.00m

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Project Division, Dasrahalli Zone
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NEW TECHNOLOGIES TO INNOVATE

NCB/DPD/2021-22/MS2–CB2

Date: 13-10-2022

TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
(Project*: Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.)

Ref: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-10-22	13-10-22	07	22500	430	19.11	19.11
	002	"	"	"	"	425	18.89	
	003	"	"	"	"	435	19.33	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Dhobi Ghat Rd Ch:60.00 to 90.00m

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

For Newzen Consultants Bangalore

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...NTS BANGALORE

NWE/CMRD/2021-22/MS2--CB5

Date: 14-10-2021

LAST REPORT ON CEMENT CONCRETE CUBES:

Name of Work: Testing of Concrete Cubes (for 07days Compressive Strength) Improvements of Roads From Mallikarjuna Swamy Temple to Dhobbighat sy No:33 in Mallasandra Ward No:13.)

Ref: Material testing/PMC/21-22,

Work Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl. No.	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-10-22	14-10-22	07	22500	430	19.11	19.33
2	002	"	"	"	"	440	19.56	
3	003	"	"	"	"	435	19.33	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Dhobi Ghat Rd Ch:90.00 to 118.50m

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...OPD/2021-22/MS2--CB3A

Date: 03-11-2022

...T REPORT ON CEMENT CONCRETE CUBES:

...ring of Concrete Cubes (for 28days Compressive Strength).

...Improvements of Roads From Mallikarjuna Swamy Temple to Dhobhighat sy No:33 in Mallasandra Ward No:13.}

Material testing/PMC/21-22,

For Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

...e of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-10-22	03-11-22	28	22500	605	26.89	27.26
	002	"	"	"	"	615	27.33	
	003	"	"	"	"	620	27.56	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Cross Rd 01 From Main Road Ch:0.00 to 30.00m

AE

For Newzen Consultants Bangalore

Director

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Asst. Executive Engineer
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